From MUTEX.

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT			
To: SYMBIAN SOFTWARE LIMITED Legal Department Attn. Margolie, Andrew 2-6 Boundary Row London SEI 8HP UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	(day/month/year) 26/07/2005			
Applicant's or agent's file reference				
PDF 0307/07(PCT)	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date (day/month/year)			
PCT/GB2005/001300	(day/month/year) 01/04/2005			
Applicant SYMBIAN SOFTWARE LIMITED				
Authority have been established and are transmitted herewith Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim When? The time limit to filing such amendments is norn International Seach Report; however, for more. Where? Directly to the international Elwane VIIIPO. 24 1211 Geneva 20, Switzerland, Fe For more detailed instructions, see the notes on the accord. The applicant is hereby notified that no international search Ancle 17(2)(a) to that effect and the written opinion of the in S With regard to the protest against payment of (an) additional to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision thereon has been continued to the protest together with the decision that the protest together with the decision thereon has been continued to the protest together with the decision that the protest together the protest tog	s of the International Application (see Rule 46): really 2 months from the date of transmittal of the details, see the notes on the accompanying sheet. chemia das Codmitentes scirrile No.; (41-22) 74.0; (4.55 report) will be established and that the declaration under temport will be established and that the declaration under temport will be established and that the declaration under temport will be established and that the declaration under temport will be established and that the declaration under temport will be established and that the declaration under temporary to the declaration of the declaration of the the declaration of the			
Shortly after the explanation of 18 months from the priority date, the international explication will be published by the International Buseau. If the applicant whee he is avoid or pospone published, a notice of withintered of the international application, or of the priority claim, must reach the international Bureau as provided in Paties 90b/s.1 and 90b/s.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the v International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be as the public but not before the expiration of 30 months from the prior	such comments to all designated Offices unless an stablished. These comments would also be made available to			
Within 19 months from the priority date, but only in respect of som examination must be filed if the applicant wishes to postpone the e date (in some Offices even later); otherwise, the applicant must, we acts for entry into the national phase before those designated Office	entry into the national phase until 30 months from the priority			
In respect of other designated Offices, the time limit of 30 months months.	(or later) will apply even if no demand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about the appli Guide, Volume II, National Chapters and the WIPO Internet site.	cable time limits, Office by Office, see the PCT Applicant's			
Name and mailing address of the International Sperching Authority	Authorized affici			

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Ahmed Soliman

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.				
PDF 0307/07 (PCT) International application No.	International filing date (day/month/y	ear) (Earliest) Priority Date (day/month/year)				
**	01/04/2005	02/04/2004				
PCT/GB2005/001300	01/04/2005	02/04/2004				
Applicant						
SYMBIAN SOFTWARE LIMITED						
This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Antide 15. A copy is being transmitted to the international Bureau.						
This International Search Report consists	of a total ofshee	8.				
X It is also accompanied by						
 Basis of the report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filled, unless otherwise indicated under this item. 						
The international a		a translation of the International application furnished to				
b. With regard to any nucleo	tide and/or amino acid sequence di	sclosed in the international application, see Box No. I.				
Certain claims were found unsearchable (See Box II).						
3. Unity of invention is lack	Unity of invention is lacking (see Box lil).					
With regard to the title.						
X the text is approved as su						
the text has been establish	ned by this Authority to read as follows	:				
5. With regard to the abstract,						
X the text is approved as sui	bmitted by the applicant.					
the text has been establish may, within one month fro	ned, according to Rule 38.2(b), by this m the date of mailing of this internation	Authority as it appears in Box No. IV. The applicant nal search report, submit comments to this Authority.				
6. With regard to the drawings,	6. With regard to the drawings,					
a. the figure of the drawings to be p	ublished with the abstract is Figure No	_1				
X as suggested by the	ne applicant.	·				
	Authority, because the applicant faile					
	Authority, because this figure better	characterizes the invention.				
b. none of the figures is to be	published with the abstract.					

INTERNATIONAL SEARCH REPORT

Int | Application No

	INTERNATIONAL SEARCH REF	11.	Pu1/48200	5/001300
A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F9/46				
	o International Patent Classification (IPC) or to both national classific	ation and IPC		
	SEARCHED	on eumhole)		
Minimum documentation searched (classification system betweed by classification symbols) IPC 7 G06F				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consented during the international search (name of data base and, where practical, search terms used) EPO-Internal, INSPEC, COMPENDEX, IBM-TDB				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT			
Cetegory *	Citation of document, with indication, where appropriate, of the rel	evant passages		Relevant to claim No.
X	CHEREPOV M ET AL: "Hard real-tim RTX on Windows NT"			1-31
	PROCEEDINGS OF THE USENIX WINDOWS SYMPOSIUM, 13 July 1999 (1999-07- pages 103-111, XP002289600 abstract			
	page 107, right-hand column, line	es 8-49		
A	RIVAS ET AL: "MaRTE OS: An Ada Kernel for Real-Time Embedded Applications" LECTURE NOTES IN COMPUTER SCIENCE, vol. 2043, January 2001 (2001-01), pages 305-316, XP00233466 page 309, line 3 - page 312, line 4			1-31
	-	-/		
لشا_	ner documents are listed in the continuation of box C.	Patent femily r	nembers ere listed I	n ennex.
A docume	tegories of cited documents : int defining the general state of the art which is not	"T" later document pub or priority date and often to understand	not in conflict with	the application but
'E' earlier d	**Cooliment detrining me general scale on the air warran is not considered to the or particular relevance or the viscosition of the or particular relevance or the viscosition of the principle or theory undertying the invention of the principle or theory undertying the fivenition or the particular relevance; the claimed invention cannot be considered not or cannot be considered to			laimed Invention
"L' document which may throw doubts on priority claim(s) or which is clad to askabilish the publication date of another citation or other special reason (as specified) document of particular relevance; the claimed invention claimed invention claimed invention cannot be considered to browbe an invention state of another considered to browbe an invention state of a comment of particular relevance; the claimed invention cannot be considered to browbe an invention and the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance; the claimed invention of the comment of particular relevance of the comment of particular relevance of the comment of the comme			cument is taken alone laimed invention antitive step when the	
10° document referring to an onal disclosure, use, exhibition or other means of comment is combined with one or more other such document is combined with one or more other such document published price to the International Illing date but last their the priority date claim to priority date claim.			us to a person skilled	
	actual completion of the international search	Date of mailing of t		
5	July 2005	26/07/2	005	
Neme and m	naling address of the ISA	Authorized officer		
Europeen Patent Office, P.B. 5818 Patentiaan 2 NL – 2288 HV Rjave Tett (+31-70) 340-3016, Tx. 31 651 epo nt, Fax: (+31-70) 340-3016		de Man,	A	

INTERNATIONAL SEARCH REPORT

Inte, nai Application No PC1/6B2005/001300

		PC1/GB2005/001300
	tetion) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
auregory ·	LUI SHA ET AL: "PROTACH TO REAL-TIME SYNCHRONIZATION" IEEE TRANSCITIONS ON COMPUTERS, IEEE INC. NEW YORK, US, vol. 39, no. 9, 1 September 1990 (1990-09-01), pages 1175-1185, xev00149625 ISSN: 0018-9340 abstract page 1177, left-hand column, lines 19-36	1-31
	216 (pornimation of assorts sheet) (January 2004)	

PATENT COOPERATION TREATY

	To:			PCT	
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)			
				Date of mailing (day/month/year) s	ee form PCT/ISA/210 (second sheet)
	licant's or agent's file form PCT/ISA/2			FOR FURTHER See paragraph 2 bel	
International application No. PCT/GB2005/001300		International filing date (c 01.04.2005	e (day/month/year) Priority date (day/month/year) 02.04.2004		
	mational Patent Class 6F9/46	sification (IPC) or	both national classification	and IPC	
	licant MBIAN SOFTWA	ARE LIMITED	A		
1.	This opinion co	ntains indication	ons relating to the follo	owing items:	
	Box No. I	Basis of the op	inion		
	Box No. II	Priority			
	☐ Box No. III	Non-establishr	pent of opinion with reas	ard to novelty, invent	ive step and industrial applicability
	□ Box No. IV		nent or opinion with regu		
	☐ BOX NO. IV	Lack of unity o		,	,
	☐ Box No. V	Reasoned stat	f invention	:.1(a)(i) with regard to	novelty, inventive step or industrial
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Name and mailing address of the ISA



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de Man, A

Telephone No. +31 70 340-4527



	Box	No. I	Basis of the opinion			
1.	With the la	regar	d to the language, this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.			
	1.	angu	pinion has been established on the basis of a translation from the original language into the following age , which is the language of a translation furnished for the purposes of international search r fulser 12.3 and 23.1 (b)).			
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material:					
		as	sequence listing			
		tat	ole(s) related to the sequence listing			
	b. for	mat c	of material:			
		in	written format			
		in -	computer readable form			
	c. tim	e of t	filing/furnishing:			
		co	ntained in the international application as filed.			
		file	ed together with the international application in computer readable form.			
		fur	nished subsequently to this Authority for the purposes of search.			
3.	ŀ	nas b	sition, in the case that more than one version or copy of a sequence listing and/or table relating theretoen filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.			
4.	Addit	ional	comments:			
_	Box	No. II	Priority			
1.	(does requir	alidity of the priority claim has not been considered because the International Searching Authority not have in its possession a copy of the earlier application whose priority has been claimed or, where ed, a translation of that earlier application. This opinion has nevertheless been established on the prior that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.			

2. This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43bis 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, if necessary:

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 Reference is made to the following document:
 - D1: Cherepov, "Hard Real-Time With RTX on Windows NT" (July 1999)
- 2 Document D1 discloses, using the wording of claim 1,

a computing device comprising a scheduler incorporating an algorithm for ordering the running of threads of execution having different priorities (page 107, right-hand column, lines 8-19; RTSS scheduler); and

including a list of threads which are scheduled to run on the device, ordered by priority (page 107, right-hand column, lines 20-30; ready queue per priority);

the device further comprising at least one locking mechanism for blocking access to a resource of the device from all threads except for a thread that holds the locking mechanism (page 107, right-hand column, lines 43-49; access to an object is blocked for a high priority thread while a low priority thread holds the object);

and in which a scheduled thread which is blocked from running causes the thread which holds the locking mechanism to run (page 107, right-hand column, lines 43-59; the effective priority of the low priority thread that holds the object is promoted to that of the high priority thread, thereby implicitly causing it to run).

Thus the subject-matter of claim 1 is not new (Article 33(2) PCT).

3 The subject-matter of independent claims 17 and 18 largely corresponds to the subject-matter of claim 1, which is found to lack novelty. Thus, for substantially the same reasons as above, the subject-matter of claims 17 and 18 is not new either (Article 33(2) PCT).

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/001300

4 The additional features of dependent claims 2, 4, 19 and 21 are also disclosed by document D1, see page 107, right-hand column, lines 8-30.

Thus the subject-matter of claims 2, 4, 19 and 21 is not new (Article 33(2) PCT).

5 Dependent claims 3, 5-16, 20 and 22-31 specify obvious and well-known features that merely define implementation details of the scheduler and locking mechanism, not affecting the actual scheduling scheme or achieving any non-obvious technical advantages. These features are therefore not considered to contribute to an inventive step.

Thus the subject-matter of claims 3, 5-16, 20 and 22-31 does not involve an inventive step (Article 33(3) PCT).